

Application No. 10/811,803
Amendment dated January 25, 2006
After Allowance Under 37 C.F.R. 1.312

Docket No.: 2870-0275PUS1

AMENDMENTS TO THE CLAIMS

1. (Previously presented) A silver halide photographic light-sensitive material for forming a silver image, comprising:

at least one silver halide emulsion layer on a side of a support,
at least one nucleating agent on the side having the emulsion layer, and
wherein the support contains a filler treated with an organic onium ion.

2. (Original) The silver halide photographic light-sensitive material according to claim 1, wherein the filler has an aspect ratio of 50 to 10000.

3. (Original) The silver halide photographic light-sensitive material according to claim 1, wherein the filler has a thickness of 0.5 to 5 nm.

4. (Original) The silver halide photographic light-sensitive material according to claim 1, wherein the filler has an average particle size of 25 to 10000 nm.

5. (Canceled)

6. (Previously presented) The silver halide photographic light-sensitive material according to claim 1, wherein the filler is a clay compound treated with an organic onium ion.

7. (Previously presented) The silver halide photographic light-sensitive material according to claim 6, wherein the filler is a smectite group clay compound treated with an organic onium ion.

8. (Previously presented) The silver halide photographic light-sensitive material according to claim 1, wherein the filler is a swellable mineral treated with an organic onium ion.

9. (Previously presented) The silver halide photographic light-sensitive material according to claim 8, wherein the filler is swellable mica treated with an organic onium ion.

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10. (Previously presented) The silver halide photographic light-sensitive material according to claim 8, wherein the filler is swellable vermiculite treated with an organic onium ion.

11. (Original) The silver halide photographic light-sensitive material according to claim 1, which shows a gamma of 4.0 or more for the optical density range of 0.1 to 1.5 on a characteristic curve drawn in orthogonal coordinates of common logarithm of light exposure (x-axis) and optical density (y-axis) using equal unit lengths for the both axes.

12. (Previously presented) A silver halide photographic light-sensitive material for forming a silver image, comprising:
at least one silver halide emulsion layer on a support and a back layer on the side of the support opposite to the side having the emulsion layer,
at least one nucleating agent on the side having the emulsion layer, and
an undercoat layer containing a clay compound coated with an organic substance between the support and the emulsion layer or between the support and the back layer.

13. (Original) The silver halide photographic light-sensitive material according to claim 12, wherein the clay compound coated with an organic substance has an aspect ratio of 50 to 10000.

14. (Original) The silver halide photographic light-sensitive material according to claim 12, wherein the clay compound coated with an organic substance has a thickness of 0.5 to 5 nm.

15. (Previously presented) The silver halide photographic light-sensitive material according to claim 12, wherein the clay compound coated with an organic substance is a layered silicate compound treated with an organic onium ion.

16. (Previously presented) The silver halide photographic light-sensitive material according to claim 15, wherein the clay compound coated with an organic substance is a smectite group clay compound treated with an organic onium ion.

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17. (Previously presented) The silver halide photographic light-sensitive material according to claim 15, wherein the clay compound coated with an organic substance is swellable mica treated with an organic onium ion.

18. (Currently amended) The silver halide photographic light-sensitive material according to claim 15, wherein the clay compound coated with an organic substance is swellable vermiculite treated with an organic onium ~~ions~~ ion.

19. (Original) The silver halide photographic light-sensitive material according to claim 12, which has undercoat layers containing a clay compound coated with an organic substance between the support and the emulsion layer and between the support and the back layer.

20. (Original) The silver halide photographic light-sensitive material according to claim 12, which shows a gamma of 4.0 or more for the optical density range of 0.1 to 1.5 on a characteristic curve drawn in orthogonal coordinates of common logarithm of light exposure (x-axis) and optical density (y-axis) using equal unit lengths for the both axes.

21. (Previously presented) A silver halide photographic light-sensitive material having a property of forming a silver image through development by a developer having a pH of 9.0 to 11.0,

wherein the silver halide photographic light-sensitive material comprises at least one silver halide emulsion layer on a support, and
the support comprises a filler.

22. (Previously presented) A silver halide photographic light-sensitive material comprising at least one silver halide emulsion layer on a support,

wherein the support comprises a filler treated with an alkylamine ion or an ammonium ion having both of an alkyl group and a glycol chain, or a filler treated with a phosphonium ion, a sulfonium ion or an onium ion derived from a heteroaromatic ring.

23. (Previously presented) A silver halide photographic light-sensitive material for forming a silver image comprising:

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at least one silver halide emulsion layer on a support, and
at least one nucleating agent on the side having the emulsion layer;
wherein the support comprises a polyester comprising a filler treated with an organic
onium ion.

24. (Previously presented) A silver halide photographic light-sensitive material
comprising at least one silver halide emulsion layer on a support,
wherein the support comprises a filler, and wherein
the support has a Young's modulus of 4400 to 15000 MPa in the portion containing the
filler .

25. (Previously presented) A silver halide photographic light-sensitive material having a
property of forming a silver image through development by a developer having a pH of 9.0 to
11.0, wherein the silver halide photographic light-sensitive material comprises:
at least one silver halide emulsion layer on a support and a back layer on the side
of the support opposite to the side having the emulsion layer, and
an undercoat layer comprising a clay compound coated with an organic substance
between the support and the emulsion layer or between the support and the back
layer.

26. (Previously presented) A silver halide photographic light-sensitive material having a
property of forming a silver image through development by a developer having a pH of 9.0 to
11.0, wherein the silver halide photographic light-sensitive material comprises:
at least one silver halide emulsion layer on a support and a back layer on the side of the
support opposite to the side having the emulsion layer,
at least one nucleating agent on the side having the emulsion layer,
an undercoat layer comprising a clay compound coated with an organic substance
between the support; and
wherein the support is free from fillers.

27. (Previously presented) A silver halide photographic light-sensitive material
comprising:

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at least one silver halide emulsion layer on a support and
at least one undercoat layer and a back layer on the side of the support opposite to the
side having the emulsion layer;

wherein at least one undercoat layer comprises a clay compound coated with an organic
substance between the support and the emulsion layer or between the support and the back layer,
and

wherein the support has a Young's modulus of 4400 to 15000 MPa in a portion containing
a filler.

28. (Previously presented) A silver halide photographic light-sensitive material
comprising:

at least one silver halide emulsion layer on a support,
and at least one undercoat layer and a back layer on the side of the support opposite to the
side having the emulsion layer;

wherein an undercoat layer is formed by coating between the support and the emulsion
layer or between the support and the back layer, and

wherein the undercoat layer comprises a clay compound coated with an organic substance
and at least one compound selected from the group consisting of polyester resin, polyamidoimide
resin, polyurethane resin, vinyl chloride type resin, vinylidene chloride resin, phenol resin, epoxy
resin, urea resin, melamine resin, formaldehyde resin, silicone resin, starch, denatured starch
compound, alginic acid compound, casein, pullulan, dextran, chitin, chitosan, rubber latex, gum
arabic, gumweed, natural gum, dextrin, denatured cellulosic resin, polyvinyl alcohol type resin,
polyacrylic acid type resin, polyvinylpyrrolidone, polyethyleneimine, polyvinyl ether,
polymalocate copolymer, polyacrylamide and alkyd resin.